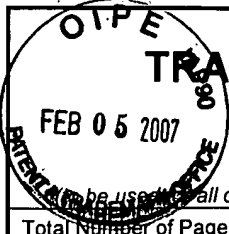



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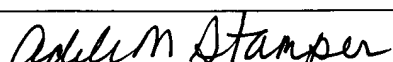
PTO/SB/21 (08-00)

	Application Number	09/832,844
	Filing Date	April 12, 2001
	First Named Inventor	Shunpei YAMAZAKI
	Group Art Unit	2826
	Examiner Name	M. Tran
Total Number of Pages in This Submission		Attorney Docket Number 0756-2288

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosures 1. Request for Certificate of Correction 2. PTO-1050 3. 4. 5. 6.
Remarks <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 50-2280 for the above identified docket number.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165
Signature	
Date	2-1-07

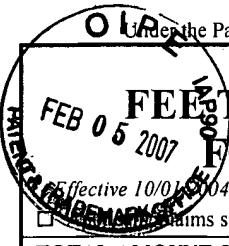
**Certificate**  
FEB 07 2007  
**of Correction**

CERTIFICATE OF MAILING			
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Type or printed name	Adele M. Stamper		
Signature		Date	2.1.2007

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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# **FEE TRANSMITTAL FOR FY 2005**

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$100.00)

## Complete if Known

Application Number	09/832,844
Filing Date	April 12, 2004
First Named Inventor	Shunpei YAMAZAKI
Examiner Name	M. Tran
Group Art Unit	2826
Attorney Docket No.	0756-2288

## METHOD OF PAYMENT

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Name

Robinson Intellectual Property  
Law Office

- ☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17 and  
credit overpayments

☐ Applicant claims small entity status.  
See 37 CFR 1.27

2. ☒ Payment Enclosed:

☒ Check ☐ Credit Card ☐ Money  
Order ☐ Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description	Fee Paid
1001	2001	300	150	Utility filing fee	
1111	2111	500	250	Search fee	
1311	2311	200	275	Examination fee	
Over 100 Sheets/250 for each additional 50					

SUBTOTAL (1) (\$)

## 2. EXTRA CLAIM FEES

Total Claims  -41\*\* =  0 X  \$50 =

Independent Claims  -113\*\* =  0 X  \$200 =

Multiple Dependent  =

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description	Fee Paid
1202	2202	50	25	Claims in excess of 20	
1201	2201	200	100	Independent claims in excess of 3	
1203	2203	360	180	Multiple dependent claim, if not paid	
1204	2204	200	100	** Reissue independent claims over original patent	
1205	2205	50	25	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1000	2403	500	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	500	2452	250	Petition to revive - unavoidable	
1453	1,500	2453	750	Petition to revive - unintentional	
1501	1,400	2501	700	Utility issue fee (or reissue)	
1502	800	2502	400	Design issue fee	
1503	1100	2503	550	Plant issue fee	
1462	400	1462	400	Petitions, Group I	
1463	200	1463	200	Petition, Group II	
1464	130	1464	130	Petitions, Group III	
1807	50	1807	50	Processing fee under 37 CR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR § 1.29(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify) <u>Certificate of Correction</u>					\$100.00

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$100.00)

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## SUBMITTED BY

Name (Print/Type)

Eric J. Robinson

Registration No.  
(Attorney/Agent)

38,285

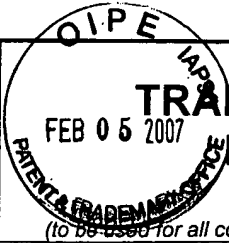
## Complete (if applicable)

Telephone

(571) 434-6789

Date


2-1-07

 <p><b>TRANSMITTAL FORM</b></p> <p><i>(to be used for all correspondence after initial filing)</i></p>	Application Number	09/832,844
	Filing Date	April 12, 2001
	First Named Inventor	Shunpei YAMAZAKI
	Group Art Unit	2826
	Examiner Name	M. Tran
Total Number of Pages in This Submission	Attorney Docket Number	0756-2288

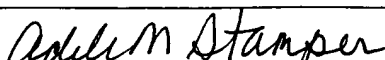
**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Declaration and Power of Attorney <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosures 1. Request for Certificate of Correction 2. PTO-1050 3. 4. 5. 6.
Remarks <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 50-2280 for the above identified docket number.		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165
Signature	
Date	2-1-07

**CERTIFICATE OF MAILING**

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Type or printed name	Adele M. Stamper		
Signature		Date	2.1.2007

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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**FEE TRANSMITTAL  
FOR FY 2005**

Effective 10/1/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27.

TOTAL AMOUNT OF PAYMENT (\$100.00)

## Complete if Known

Application Number	09/832,844
Filing Date	April 12, 2004
First Named Inventor	Shunpei YAMAZAKI
Examiner Name	M. Tran
Group Art Unit	2826
Attorney Docket No.	0756-2288

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- ☐
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Number 50-2280Deposit  
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- ☒
- Charge Any Additional Fee Required
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- Under 37 CFR 1.16 and 1.17 and
- 
- credit overpayments

- ☐
- Applicant claims small entity status.
- 
- See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

- ☒
- Check
- ☐
- Credit Card
- ☐
- Money
- 
- Order
- ☐
- Other

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1311	200	2311	275	Examination fee	
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SUBTOTAL (1) (\$)

## 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
41**	0	\$50	
113**	0	\$200	
Multiple Dependent			

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
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SUBTOTAL (2) (\$)

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

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1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
Other fee (specify) Certificate of Correction					\$100.00

\* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$100.00)

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## SUBMITTED BY

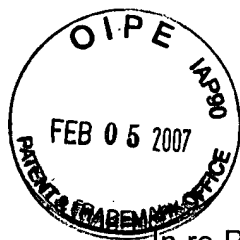
Name (Print/Type) Eric J. Robinson

Registration No. 38,285  
(Attorney/Agent)

## Complete (if applicable)

Telephone (571) 434-6789

Date 2-1-07



Attorney Docket No. 0756-2288

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Shunpei YAMAZAKI

Patent No.: 7,067,844

Dated: June 27, 2006

Serial No. 09/832,844

Filed: April 12, 2001

For: ELECTRO-OPTICAL DEVICE

) Group Art Unit: 2826

) Examiner: Minh Tran

) CERTIFICATE OF MAILING

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2-1-2007

) Adeline M. Stamps

**REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR § 1.322 FOR  
CORRECTION OF OFFICE MISTAKE**

ATTN: Certificate of Correction Branch  
Honorable Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

As provided in detail in the attached, the patentee respectfully requests that a Certificate of Correction be granted in the above-identified patent to correct a mistake in a patent, incurred through the fault of the Office.

Under 37 CFR 1.322, "The Commissioner may issue a certificate of correction pursuant to 35 U.S.C. 254 to correct a mistake in a patent, incurred through the fault of the Office, which mistake is clearly disclosed in the records of the Office at the request of the patentee or the patentee's assignee."

The Patentee furthermore requests Expedited Issuance of this Certificate of Correction in accordance with MPEP § 1480.01. Specifically, this section provides that:

In an effort to reduce the overall time required in processing and granting Certificate of Correction requests, the Office will expedite processing and granting of patentee requests where such requests are accompanied by evidence to show that the error is attributable solely to the Office . . . . Where the correction requested was incurred through the

FEB 07 2007

02/05/2007 SFELEKE1 00000043 7067844

01 FC:1811

100.00 BP

fault of the Office, and the matter is clearly disclosed in the records of the Office, and is accompanied by documentation that unequivocally supports the patentee's assertion(s), a Certificate of Correction will be expeditiously issued. MPEP § 1480.01

The following error appears to have occurred through the fault of the Office, and the patentee respectfully requests correction thereof.

In the Information Disclosure Statement (IDS) filed April 12, 2001, on Sheet 8 of 9, the Applicant cited KR 92-18644. Although the Applicant cited KR 92-18644 with a date of "03/26/1992," the correct date is 10/22/1992. The IDS filed April 12, 2001, was fully considered by the Examiner, initialed in May 2002, and a copy was attached to the Official Action mailed May 21, 2002. A copy of Sheet 8 of 9 from the IDS filed April 12, 2001, is attached herewith, and appears in the Image File Wrapper under the heading, "List of References cited by applicant and considered by examiner" and with a Mail Room Date of "05-21-2002." The copy of the "List of References cited by applicant and considered by examiner" bears the Examiner's initials, i.e. "MLT" in the left-hand column and clearly indicates the Examiner's consideration of KR 92-18644. As such, KR 92-18644 should appear in the "FOREIGN PATENT DOCUMENTS" section of U.S. Patent No. 7,067,844.

However, KR 92-18644 does not appear in the '844 patent. The Patentee respectfully submits that the citation of KR 92-18644 should appear in the '844 patent, in the "FOREIGN PATENT DOCUMENTS" section, on Page 3, right column, after line 57 (the citation of KR 90-17171), and before the heading "OTHER PUBLICATIONS." Specifically, the Patentee requests that the following line be added at this point:

--KR 92-18644 10/1992--.

Further, as provided in detail in the attached, the patentee respectfully requests that a Certificate of Correction be granted in the above-identified patent to correct minor clerical, typographical or grammatical errors.

03 07 2004

As provided in detail in the attached, Patentees respectfully request that a Certificate of Correction be granted in the above-identified patent to correct minor clerical, typographical or grammatical errors.

Under 37 CFR 1.323, In re Arnott, 19 USPQ2d 1049, 1052 (Comm'r Pat. 1991), and 35 U.S.C. 255, a Certificate of Correction for a Patentee's mistake may issue if the mistake is of a clerical or typographical nature, or of minor character (would not materially affect the scope or meaning of the patent), and if the correction does not involve changes which would constitute new matter or require reexamination.

It has come to Patentee's attention that the Information Disclosure Statement filed April 12, 2001, included inadvertent typographical errors.

Specifically, the Information Disclosure Statement filed April 12, 2001, included the following inaccuracies:

- 1) On Sheet 5 of 9, EP 0 161 555 was incorrectly listed with the date of 06/02/1987. The correct date is 11/21/1985.
- 2) On Sheet 6 of 9, JP 02-208635 was incorrectly listed with a date of 11/02/1990. The correct date is 08/20/1990.

As a result, the incorrect dates appear on the face of the patent, right column, under the heading "FOREIGN PATENT DOCUMENTS" and on Page 3, right column, line 42. The Patentee respectfully requests correction of the above-referenced incorrect dates as noted in detail in the attached Certificate of Correction Form.


The above corrections are due to good faith inadvertent errors of a minor character, are of a clerical, typographical or grammatical nature, do not add new matter and do not require reexamination. Therefore, the patentee respectfully requests that the Certificate of Correction be granted in this patent.

FEB 07 2002

Patent No. 7,067,844  
Application Serial No. 09/832,844  
Attorney Docket No. 0756-2288

A check in the amount of \$100.00 is enclosed to cover the Certificate of Correction fee. Any deficiencies or overages in any fees due in connection with this patent and the requested actions should be applied to Deposit Account No. 50-2280(0756-2288).

Respectfully submitted,



---

Eric J. Robinson  
Reg. No. 38,285

Robinson Intellectual Property Law Office, P.C.  
PMB 955  
21010 Southbank Street  
Potomac Falls, Virginia 20165  
(571) 434-6789

FEB 07 2007



## INFORMATION DISCLOSURE STATEMENT

Applicants: Shunpei YAMAZAKI

Filing Date: April 12, 2001

Group Art Unit: 1765

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes	No
MLT	92-18644	03/26/1992	KR	—	—		

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	
MLT	A.C. Adams, Edited by S.M. Sze, VLSI Technology, McGraw-Hill Book Company, 1981, pp. 233-235, Chapter 6 "Dielectric and Polysilicon Film Deposition"
	Blum et al., "Low Pressure CVD Process for Micro and Polycrystalline Silicon", Aug. 1983, pp. 921-22, IBM Technical Disclosure Bulletin, Vol. 26, No. 3A
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	Wolf et al., "Silicon Processing for the VLSI Era", 1986, pp. 175-76, Process Technology, Vol. 1, Lattice Press, Sunset Beach, CA
	H. Ohshima et al., "Future Trends for TFT Integrated Circuits on Glass Substrates", (IEEE 1989), pp. 157-160, IEDM
	Tsai et al., Proceedings of the Xth Int'l Conference on Amorphous and Liquid Semiconductors, Tokyo, Japan 8/22-26/1983, December 1983, pp. 731-734, Journal of Non-Crystalline Solids, Vol. 59 & 60, Part II
	C. Magee et al., Solar Cells 2, "Investigation of the Hydrogen and Impurity Contents of Amorphous Silicon by Secondary Ion Mass Spectrometry", 1980, pp. 365-376, RCA Laboratories, Princeton, NJ
	Edited by J.D. Joannopoulos and G. Lucovsky, Springer-Verlag, "The Physics of Hydrogenerated Amorphous Silicon I Structure, Preparation and Devices", 1984, pp. 8-9 & 38-41, Berlin Heidelberg, New York, Tokyo
	Hatalis et al., "High Performance Thin Film Transistors in Low-Temperature Crystallized LPCVD Amorphous Silicon Films", August 1987, pp. 161-164, IEEE Electron Device Letters, Vol. EDL-8, No. 8
	Masakiyo Matsumura, "(Invited) Amorphous Silicon Transistors and Integrated Circuits", 1983, pp. 487-491, Japanese Journal of Applied Physics, Vol. 22
	Scheid et al., "Super Large Grain Polycrystalline Silicon Obtained From Pyrolysis of Si <sub>2</sub> H <sub>6</sub> and Annealing", November 1990, pp. L2105-2107, Japanese Journal of Applied Physics, Vol. 29, No. 11
	Tonouchi et al., "Characterization of uc-Si:H Films Prepared by H <sub>2</sub> Sputtering", March 1990, pp. L385-L387, Japanese Journal of Applied Physics, Vol. 29, No. 3
	Sun et al., "Growth Temperature Dependence of uc-Si:H Films Sputtered with Hydrogen Gas", July 1990, pp. L1029-L1032, Japanese Journal of Applied Physics, Vol. 29, No. 7
	Aklyama et al., "An Active Matrix LCD with Integrated Driver Circuits Using a Si TFTs", , pp. 212-215, Japan Display
	Inventors: Jun Koyama et al., Specifications and Drawings for U.S. Patent Application Serial No. 09/448,756, Filing Date: 11/24/1999, , "Redundancy Shift Register Circuit for Driver Circuit in Active Matrix Type Liquid Crystal Display Device"
	Inventors: Jun Koyama et al., Specifications and Drawings for U.S. Patent Application Serial No. 09/229,677, Filing Date: 01/13/1999, , "Semiconductor Integrated Circuit"
	Inventors: Jun Koyama et al., Specifications and Drawings for U.S. Patent Application Serial No. 09/448,463, Filing Date: 11/24/1999, , "Redundancy Shift Register Circuit for Driver Circuit in Active Matrix Type Liquid Crystal Display Device"
MLT	Kobayashi, "Color Liquid Crystal Display", December 14, 1990, PP.162-166, ---

Examiner Minhloan Tran

Date Considered 5/02

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

04/12/2001

FEB 07 2001

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## UNITED STATES PATENT AND TRADEMARK OFFICE

**CERTIFICATE OF CORRECTION**

PATENT NO : 7,067,844

DATED : June 27, 2006

INVENTOR(S) : Shunpei YAMAZAKI

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the face of the patent, right column, under the heading "FOREIGN PATENT DOCUMENTS" in the citation of EP 0 161 555, replace "6/1987" with --11/1985--.


Page 3, right column, line 42, in the citation of JP 02-208635, replace "11/1990" with --08/1990--; and after line 57 (the citation of KR 90-17171), and before the heading "OTHER PUBLICATIONS" insert the following citation: --KR 92-18644 10/1992--.

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